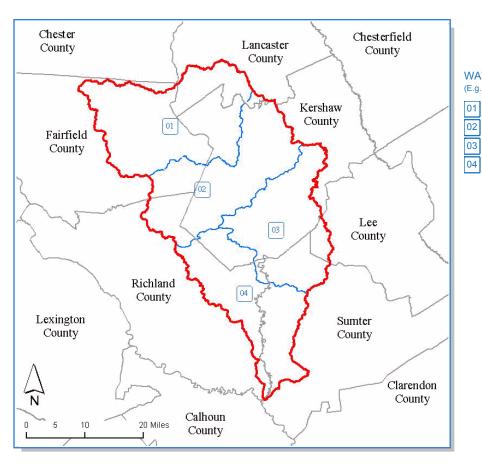
An Assessment of the Wateree Subbasin

Hydrologic Unit Code (8 Digit): 03050104





WATERSHED (10-digit HUC) (E.g., 01 = 0305010401)

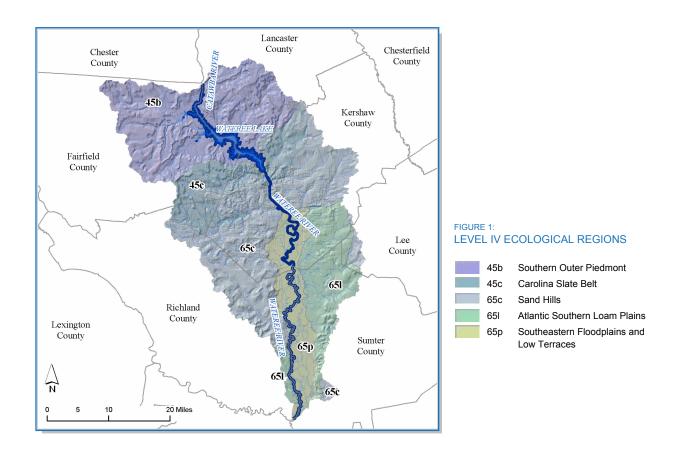
- 1 Lake Wateree-Catawba River
 - Upper Wateree River
- 03 Middle Wateree River
 - Lower Wateree River



Watershed Description

The Wateree River is a continuation of the Catawba River, which flows from the Blue Ridge Mountains in North Carolina. The name changes from Catawba to Wateree at Lake Wateree, which is formed by a hydroelectric dam in Kershaw County, South Carolina. The Wateree flows generally southward and joins the Congaree River to form the Santee River about 35 miles southeast of Columbia. The subbasin drains 1,255 square miles or 803,750 acres.

The subbasin lies in the Piedmont (45) Southeastern Plains (65) and Middle Atlantic Coastal Plain (63) ecoregions (Figure 1). A brief description of the Level III ecoregions in this watershed is available in this document's appendix. A more detailed description of the Level III and Level IV Common Resource Areas (Ecological Regions) is available online (See Griffith *et al.* 2002 in References section.).



Land Use/Land Cover

The subbasin is largely rural. Columbia and Camden and the area along I-20 are the primary urban clusters in the subbasin. Farmland is sparse in the Piedmont, Slate belt, and Sand Hills (mostly woods and forests), but denser in the southeast where the deep, well-drained soils of the Atlantic Southern Loam Plains lie in the watershed (Figure 1; Figure 2). Farmland in Lee and Sumter County (in the Southeastern Loam plains) is mostly dedicated to crops, while those in the northern counties (Fairfield, Lancaster, and Kershaw) have a much higher proportion devoted to pasture and hayland.

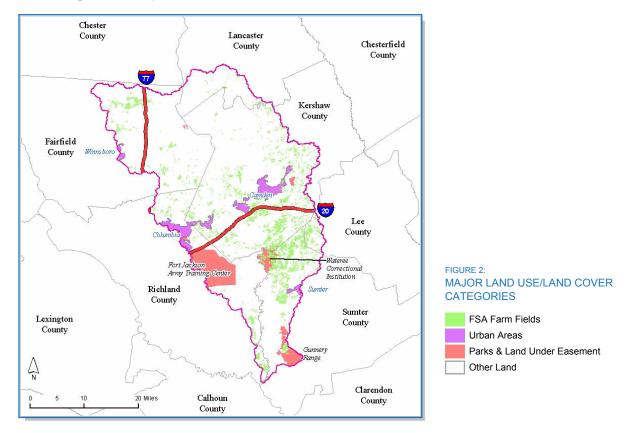


Table 1: MAJOR LAND USE/LAND COVER CATEGORIES

| W/WORLE WAS COLLEWAY COVER OF TECONIES | Acres | % of Watershed |
|--|---------|----------------|
| Watershed (Total) | 803,750 | - |
| Urban Area | 23,929 | 3% |
| Parks/Land Under Easement (not NRCS) | 42,949 | 5% |
| Farm Service Agency Designated Farm Fields | 67,668 | 8% |

Table 2:
AGRICULTURAL LAND USE: FSA ACREAGE AND ESTIMATED FARM FIELD USE FROM THE 2002 AG CENSUS (NASS Whole County Data Used. Cropland includes: Field Crops, Orchards, and Specialty Crops.)

| County | FSA Fields (Acres) | % Pasture (Estimated) | % Cropland (Estimated) | % Hayland (Estimated) |
|-----------|-----------------------|-----------------------|------------------------|-----------------------|
| Fairfield | 8,285 | 44% | 16% | 40% |
| Kershaw | 30,484 | 21% | 54% | 25% |
| Lancaster | 1,205 | 37% | 22% | 41% |
| Lee | 3,129 | 3% | 94% | 4% |
| Richland | 5,676 | 17% | 72% | 10% |
| Sumter | 18,890 | 7% | 88% | 5% |

Summary of Resource Concerns

The following is a summary of resource concerns for the watershed. Each resource concern has a more detailed analysis provided in its corresponding section.

Soils

Land capability limitations are dominated by erosion and to a lesser extent by wetness and droughtiness in this subbasin which consists of both Coastal Plain and Piedmont regions. Erosion is the major resource concern in the Piedmont portion of the subbasin and on sloping soils in the Coastal Plain region. Hydric soils comprise 10% of land in the subbasin and only occur in the Coastal Plain portion of the subbasin. Partially hydric soils make up 14% of the subbasin and occur predominantly in the Coastal Plain portion of the subbasin but occur in riparian areas in the Piedmont part of the subbasin. None of the Piedmont area has soils that are all hydric.

Water Quantity

Awaiting SCDNR's 2007 state water assessment.

Water Quality

Various - fecal coliform, phosphorus, turbidity and pH impairments.

Plant Condition

The most prominent crops in the subbasin include corn and wheat for grain and cotton.

Fish, Wildlife, and Native Plants

According to SC DNR's "Comprehensive Wildlife Conservation Strategy: 2005 - 2010" (see SCDNR 2005 in References section), the following applies to this subbasin: Biologists have identified habitat protection as one of the most important actions to ensure the protection of South Carolina priority species. Loss and fragmentation of habitat have been identified as a major threat to many of the species listed as threatened and endangered in South Carolina.

Domestic Animals

Livestock populations are limited to a relatively small numbers of grazing animals (cattle, horses). Confined livestock is dominated by the turkey industry, much of which is located in the east or in the extreme west of the subbasin.

Economic and Social Factors

In Lancaster County, there is some pressure from development in the form of single-family homes. As the northern part of the county experiences rapid urbanization, land values and prices are skyrocketing with the result being that some people are moving to the southeastern part of the county.

Progress on Conservation

Trees and Shrubs

Wildlife Habitat

Wetlands

Table 3: A SUMMARY OF NRCS APPLIED CONSERVATION TREATMENTS (ACRES) (See Appendix for NRCS Conservation Practices used for Conservation Treatment Categories.)

(Applied practice data is reported on a fiscal year basis commencing on October 1st)

Conservation Treatments 2004 2005 2006 Total Buffers and Filter Strips 61 72 4 7 Conservation Tillage 689 38 684 1,411 **Erosion Control** 657 1,327 1,105 3,089 Irrigation Water Management **Nutrient Management** 917 2,022 1,585 4,524 Pest Management 1,188 1,506 1,470 4,164 1,209 928 281 Prescribed Grazing

380

1,501

394

Table 4: LANDS REMOVED FROM PRODUCTION BY FARM BILL PROGRAMS (WHOLE COUNTY DATA SHOWN)

| County | Conservation Reserve Program (ac) 2005 | Conservation Reserve Program (ac) 1986 - 2005 | Grassland Reserve Program (ac) 2005 | Farmland & Ranch Protection Program (ac) 2005 | Wetland Reserve Program (ac) 2005 |
|-----------|--|---|---|---|---|
| Fairfield | - | 0 | - | - | - |
| Kershaw | 5,139 | 136,864 | - | - | - |
| Lancaster | 2,061 | 53,475 | - | - | - |
| Lee | 13,138 | 231,561 | - | - | 2,490 |
| Richland | 358 | 7,398 | - | - | 2,171 |
| Sumter | 10,246 | 138,931 | 83 | 921 | 4,649 |

79

660

1,079

890

1,045

1,199

1,349

3,206

2,672

Table 5:
APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL)
(See SCDHEC 2007 (a) in Reference Section.) - SCDHEC Contact: Matt Carswell - (803) 898-3609

| TMDL Document | Numberof Stations | Parameter of Concern | Status | WQMS ID Standard Attained |
|----------------------------|----------------------|----------------------|-------------------------|------------------------------|
| Catawba River & Reservoirs | 3 | pH, Phosphorus | Under Development | - |
| Big Wateree Creek | 1 | Fecal Coliform | Approved & Implementing | - |
| Big Wateree Creek | 1 | Turbidity | Approved & Implementing | CW-072 |
| Sawneys Creek | 2 | Fecal Coliform | Completed & Approved | - |
| Spears and Kelly Creeks | 2 | Fecal Coliform | Approved & Implementing | = |
| Twenty-five Mile Creek | 1 | Fecal Coliform | Completed & Approved | - |

Table 6: OTHER PLANS, ASSESSMENTS, AND PROJECTS IN THE WATERSHED

OrganizationDescriptionContactTelephoneSCDHECWatershed Water Quality Assessment: Catawba
River Basin (2005)Carol Copeland803-898-4203

Other Watershed Considerations

Soils

The Wateree subbasin contains two major land resource areas; the Piedmont in the upper part of the subbasin which makes up about 40% of the area and the Coastal Plain in the lower part of the subbasin which comprises the remaining 60% of the subbasin. Erosion is the major resource concern in the Piedmont portion of the subbasin and on sloping soils in the Coastal Plain region (Figure 4). Nearly all of the acreage in the Piedmont portion of the subbasin and about 15% of the acreage in Coastal Plain portion of the subbasin is highly erodible. Almost all of the land along the Wateree River in the Coastal Plain portion of the subbasin is classified as not highly erodible (Figure 4, Table 9). About one-quarter (21%) of the area have limitations due to wetness (Table 7). Most of the wetness occurs in riparian areas in the Coastal Plain (Figure 5, Table 10). Droughtiness is a major concern in another quarter (25%) of the area (Table 7) and occurs mostly in the sandy soils of the Sand Hills (Figure 1). Low soil organic matter in these sandy soils is a soil health concern. Less than half of the land (44%) in the Wateree subbasin is either prime farmland (22%) or statewide important farmland (23%). Most of this land occurs in the Carolina Slate Belt and Atlantic Southern Loam Plains portions of the subbasin (Figure 3, Table 8).

Table 7: LAND CAPABILITY CLASSES (See NRCS 2007 [a] and [b] in References section.)

Percentages are based on the whole watershed (803,750 ac).

| Land Capability Class 1 | Acres | Percent |
|-------------------------|--------|---------|
| 1 - Slight limitations | 17,723 | 2% |

% Land by Subclass Limitation

| | Erosi | on (e) | Wetn | Wetness(w) Droughtine | | tiness (s) |
|---|---------|---------|--------|-----------------------|--------|------------|
| Land Capability Classes 2-8 | Acres | Percent | Acres | Percent | Acres | Percent |
| 2 - Moderate limitations | 134,068 | 17% | 37,267 | 5% | 30,294 | 4% |
| 3 - Severe limitations | 92,166 | 11% | 61,482 | 8% | 51,277 | 6% |
| 4 - Very severe limitations | 67,986 | 8% | 17,907 | 2% | 83,470 | 10% |
| 5 - No erosion hazard, but other limitations | - | - | 1,977 | 0% | - | - |
| 6 - Severe limitations; unsuitable for cultivation; limited to pasture, range, forest | 40,833 | 5% | 24,026 | 3% | 19,977 | 2% |
| 7 - Very severe limitations; unsuitable for cultivation; limited to grazing; forest, wildlife habitat | 61,280 | 8% | 23,722 | 3% | 7,965 | 1% |
| 8 - Miscellaneous areas; limited to recreation, wildlife habitat, water supply | - | - | - | - | 100 | 0% |

Prime Farmland

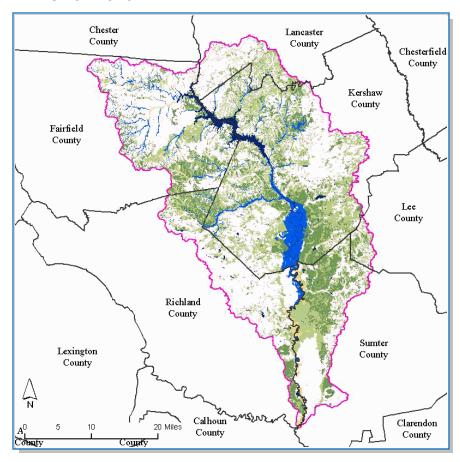


FIGURE 3: PRIME FARMLAND (See NRCS 2007 [a] and [b] in References section.)

Table 8: PRIME FARMLAND

| Prime Farmland Categories | Acres | Percent of Land |
|--|---------|-----------------|
| All areas are prime farmland | 116,988 | 15% |
| Farmland of statewide importance | 185,855 | 23% |
| Not prime farmland | 451,167 | 56% |
| Prime farmland if drained | 271 | 0% |
| Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season | 12,423 | 2% |
| Prime farmland if irrigated | 0 | 0% |
| Prime farmland if irrigated and drained | 0 | 0% |
| Prime farmland if protected from flooding or not frequently flooded during the growing season | 37,044 | 5% |

Highly Erodible Land

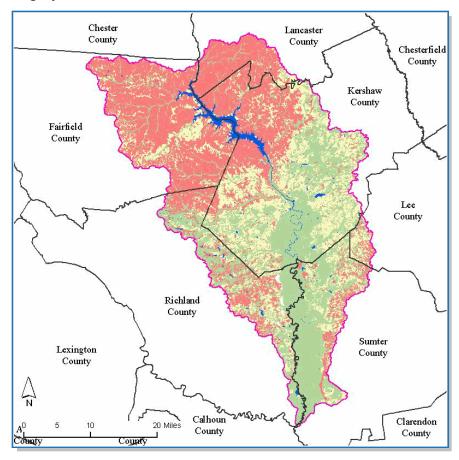


FIGURE 4: HIGHLY ERODIBLE LAND (See NRCS 2007 [a] and [b] in References section.)

Table 9: HIGHLY ERODIBLE LAND

| Highly Erodible Land Categories | Acres | Percent of Watershed |
|----------------------------------|---------|----------------------|
| Highly erodible land | 318,400 | 40% |
| Not highly erodible land | 278,791 | 35% |
| Potentially highly erodible land | 186.519 | 23% |

Hydric Soils

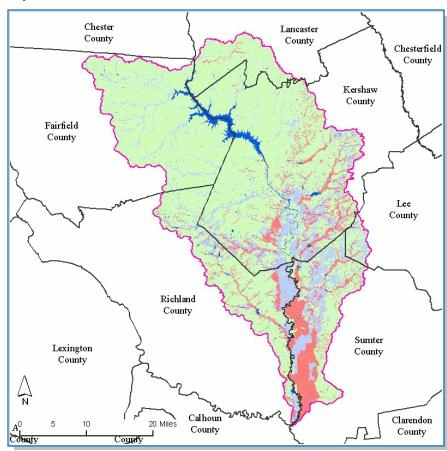


FIGURE 5: HYDRIC SOILS (See NRCS 2007 [a] and [b] in References section.)

Table 10: HYDRIC SOILS

| Hydric Soils Categories | Acres | Percent of Watershed |
|-------------------------|---------|----------------------|
| All Hydric | 79,094 | 10% |
| Not Hydric | 610,322 | 76% |
| Partially Hydric | 114,333 | 14% |

Water Quantity

Narrative awaiting SCDNR's new state water assessment.

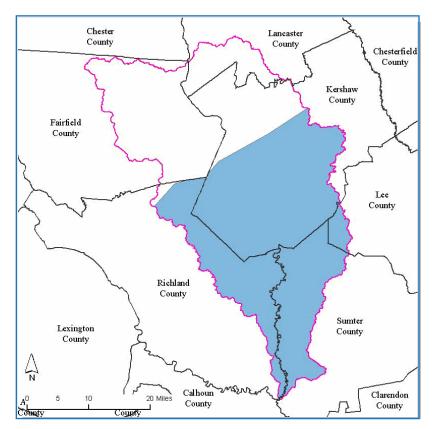


FIGURE 6: WATERSHED RELATIVE TO CAPACITY USE AREAS, NOTICE OF INTENT AREAS, AND CONES OF DEPRESSION

Table 11:
CAPACITY USE, NOTICE OF INTENT, AND CONES OF DEPRESSION AREA IN WATERSHED (See SCDHEC 2007 [c] and SCDNR 2004 in Refrerences Section.)

| Area | Percent of Watershed |
|--|----------------------|
| % Watershed in Cone of Depression and Capacity Use (CU) Area | 0% |
| % Watershed in SCDHEC Capacity Use (CU) Area | 0% |
| % Watershed in SCDHEC Notice of Intent (NOI) Area | 60% |

Water Quantity Cont.

Table 12: INDICATORS OF IRRIGATION WATER USAGE (WHOLE COUNTY DATA ARE USED) (See NASS 2002 and SCDNR 2004 in References Section)

| County | Total Irrigated Water Used MGD | Total NASS Cropland (ac) | Cropland Under Irrigation (ac) | Percent Cropland Under Irrigation | Water Use Gal/Ac/Day for Irrigated Land |
|-----------|-----------------------------------|-----------------------------|-----------------------------------|--------------------------------------|--|
| Fairfield | 2.46 | 16,750 | 250 | 1.5 | 9,840 |
| Kershaw | 0.45 | 23,510 | 903 | 3.8 | 498 |
| Lancaster | 0.95 | 31,049 | 443 | 1.4 | 2,144 |
| Lee | 0.77 | 84,966 | 1,072 | 1.3 | 718 |
| Richland | 1.77 | 25,073 | 516 | 2.1 | 3,430 |
| Sumter | 13.18 | 85,223 | 5,537 | 6.5 | 2,380 |

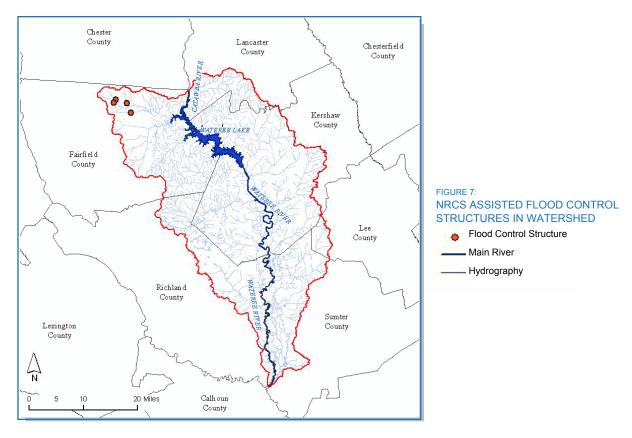


Table 13: NRCS IMPLEMENTED FLOOD CONTROL STRUCTURES

| Number of Structures | Maximum Storage | Number of Structures by Hazard Class | | | |
|----------------------|-----------------|--------------------------------------|-----|-------------|--------------|
| (in Watershed) | (AcFt) | High | Low | Significant | Unclassified |
| 4 | 6.518 | 0 | 4 | 0 | 0 |

Water Quality

The number of surface water quality impairments is shown in Table 15 resulting in a "303(d)" listing of that Water Quality Monitoring Site (WQMS). Table 5 indicates what progress has been made to address surface water quality through the Total Maximum Daily Load (TMDL) process. Once a TMDL plan is approved, the WQMS is removed from the 303(d) list even though the standard may not have been attained. Note that standards for total nitrogen, total phosphorus, and chlorophyll-a only exist for lakes; therefore, no stream in the state can be listed for any of these three parameters.

Some fecal coliform, phosphorus and turbidity concerns will be addressed through ongoing TMDLs (Table 5). The other primary water quality concern is pH impairments (Table 15).

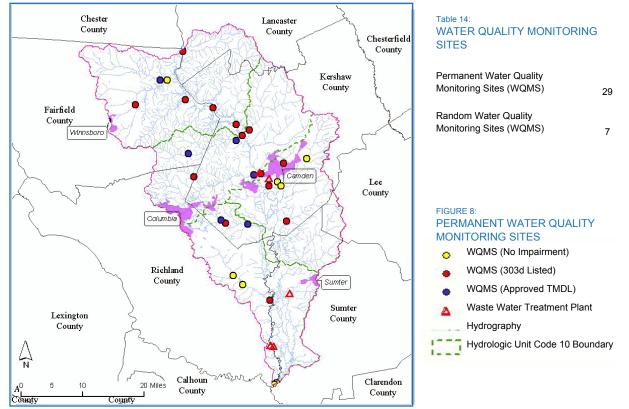


Table 15: NUMBER OF MONITORING SITES SHOWING SURFACE WATER QUALITY IMPAIRMENTS (See SCDHEC 2006 in References for the state 303(d) list.)

| Recreational Use Standard | | Fish Tissue Standard | | Shellfish Harvest Standard | | |
|---------------------------|-------------|-----------------------|-------------|----------------------------|-------------|--|
| Parameter | Impairments | Impairments Parameter | | Parameter | Impairments | |
| Fecal Coliform | 5 | Mercury | 4 | Fecal Coliform | NA | |
| | | PCB's | 0 | | | |
| Aquatic Life Use | Standard | | | | | |
| Parameter | Impairments | Parameter | Impairments | Parameter | Impairments | |
| Biological | 1 | Dissolved Oxygen | 6 | Total Phosphorus | 7 | |
| Chlorophyll A | 1 | Ammonia Nitrogen | 0 | pН | 7 | |
| Chromium | 0 | Nickel | 0 | Turbidity | 2 | |
| Copper | 1 | Total Nitrogen | 0 | Zinc | 0 | |

Plant Condition

Plants of Economic Importance

Plants of economic importance are shown in Table 16. The crops shown in this table are from NASS data where the top five crops, by acres, in each county are displayed. Timber statistics (see Clemson Extension Forest Services 2003 in References) indicate the relative importance of the timber industry within the state and the importance of the timber industry compared to agriculture within the county.

The most prominent crops in the subbasin include corn and wheat for grain and cotton.

Native Plant Species

According to SC DNR's "Comprehensive Wildlife Conservation Strategy: 2005 - 2010" (see SCDNR 2005 in References section), the following applies to this subbasin: the Piedmont ecoregion plant community historically consisted of oak and hickory-dominated forest with associated tree species varying by slope and soil moisture. This was the primary potential vegetation type in the Piedmont. Due to land disturbances however, today the majority of these sites exist mostly in closed canopy pine-dominated forests.

In the sandhills, plants are a complex of xeric pine and pine-hardwood forest types adapted to sandy soils, typically found fluvial sand ridges. Historically, a canopy of longleaf pine and a sub canopy of turkey oak prevail, this was interspersed with scrub oak species and scrub-shrub cover. Management that includes burning encourages the development of longleaf pine-wiregrass communities.

Upland areas consist of forests dominated by hardwoods, primarily with oaks and hickories, and typically on fire-suppressed upland slopes near river floodplains or between rivers and tributaries. Vegetation composition is similar to oak-hickory forest in the Piedmont, where it is a major vegetation type. Representative canopy trees are: white oak (*Quercus alba*), black oak (*Quercus velutina*), post oak (*Quercus stellata*), mockernut hickory (*Carya tomentosa*), pignut hickory (*Carya glabra*), loblolly pine (*Pinustaeda*), flowering dogwood (*Cornus florida*), and black gum (*Nyssa sylvatica*).

In the river bottoms on the coastal plains, one frequently finds hardwood-dominated woodlands with moist soils that are usually associated with major river floodplains and creeks. Characteristic trees include: sweetgum (*Liquidambar styraciflua*), loblolly pine (*Pinus taeda*), water oak (*Quercus nigra*), willow oak (*Quercus phellos*), laurel oak (*Quercus laurifolia*), cherrybark oak (*Quercus pagoda*), and American holly (*Ilex opaca*).

Table 16

Timber Revenues Exceed Ag.

WHOLE COUNTY DATA OF PLANTS OF ECONOMIC IMPORTANCE IN SUBBASIN (See: USDA NASS 2002 & Clemson University Forest Extension Services 2003 in References section)

Counties All Cotton Richland, Sumter, Lee All Wheat for grain Richland, Lee, Sumter, Fairfield, Lancaster, Kershaw Corn for grain Lee, Lancaster, Fairfield, Kershaw, Sumter, Richland Cut Christmas trees Forage - land used for all hay and Lancaster, Fairfield, Kershaw, Lee, Richland, Sumter haylage, grass silage, and greenchop Short-rotation woody crops Lancaster, Kershaw, Fairfield Soybeans Sumter, Lee, Lancaster, Kershaw, Richland Timber, Top 10 Rank in SC Fairfield

Revenues

Table 17:
FEDERALLY LISTED THREATENED AND ENDANGERED PLANT SPECIES IN WATERSHED (See USFW 2006 in References section.)

Fairfield, Richland

| Common Name | Latin Name | Status |
|--------------------------|---------------------------|-----------------------------|
| Georgia aster | Aster georgianus | Supported Proposals to List |
| Schweinitz's sunflower | Helianthus schweinitzii | Endangered |
| Rough-leaved loosestrife | Lysimachia asperulaefolia | Endangered |
| Little amphianthus | Amphianthus pusillus | Threatened |
| Smooth coneflower | Echinacea laevigata | Endangered |
| Chaff-seed | Schwalbea americana | Endangered |
| Canby's dropwort | Oxypolis canbyi | Endangered |
| Black-spored quillwort | Isoetes melanospora | Endangered |
| Michaux's sumac | Rhus michauxii | Endangered |

Fish and Wildlife

For additional information, the SC Department of Natural Resources has completed a "Comprehensive Wildlife Conservation Strategy: 2005 - 2010" (see SCDNR 2005 in References section).

In 2005, mercury advisories were issued for 57 water bodies in South Carolina. Higher concentrations of mercury in fish tissue tend to occur in the Coastal Plain of South Carolina with relatively lower concentrations (and therefore fewer advisories) in the Piedmont. For more details on fish advisories, please refer to the SCDHEC fish advisory website at: http://www.scdhec.gov/environment/water/fish/

Table 18:
FEDERALLY LISTED THREATENED AND ENDANGERED WILDLIFE SPECIES IN WATERSHED (See USFW 2006 in References section.)

| Common Name | Latin Name | Status |
|-------------------------|-------------------|------------|
| Red-cockaded woodpecker | Picoides borealis | Endangered |

Table 19:
FEDERALLY LISTED THREATENED AND ENDANGERED AQUATIC SPECIES IN WATERSHED (See USFW 2006 in References section.)

Common NameLatin NameStatusShortnose sturgeonAcipenser brevirostrumEndangeredCarolina heelsplitterLasmigona decorataEndangered

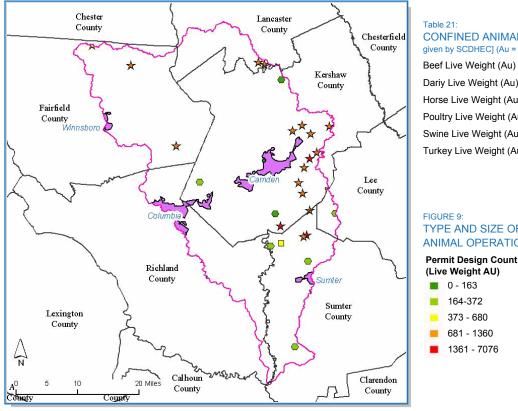
ECONOMIC & SOCIAL FACTORS

Domestic Animals

Grazing livestock populations are modest (Table 20). Confined livestock is dominated by the turkey industry (Figure 9, Table 21), much of which is located in the east (Kershaw County) or in the extreme west (Newberry County) of the subbasin.

WHOLE COUNTY GRAZING ANIMAL POPULATION DATA FROM 2002 AG. CENSUS (See NASS 2002 in References section. "D" in table = "Cannot be disclosed".)

| County | Cows/Calves | Grazing/Forage (ac) | County Rank ir State | |
|-----------|-------------|------------------------|-------------------------|--|
| Fairfield | 6,009 | 7,310 | 25 | |
| Kershaw | 4,886 | 4,965 | (D) | |
| Lancaster | 12,520 | 11,433 | 11 | |
| Lee | 3,265 | 2,313 | (D) | |
| Richland | 2,771 | 4,313 | 16 | |
| Sumter | 5,680 | 6,023 | 32 | |
| | | | | |



CONFINED ANIMAL POPULATION [As given by SCDHEC] (Au = Animal Unit = 1,000 lbs)

| Beef Live Weight (Au) | - |
|--------------------------|--------|
| Dariy Live Weight (Au) | 420 |
| Horse Live Weight (Au) | 10 |
| Poultry Live Weight (Au) | 1,565 |
| Swine Live Weight (Au) | - |
| Turkey Live Weight (Au) | 16,779 |

TYPE AND SIZE OF CONFINED **ANIMAL OPERATION**

| e Weight AU) | * | Beef |
|--------------|---|---------|
| 0 - 163 | | Dairy |
| 164-372 | • | Other |
| 373 - 680 | • | Poultry |
| 681 - 1360 | + | Swine |
| 1361 - 7076 | * | Turkey |

^{*} Weighted averages are estimated based on agricultural land use area.

ECONOMIC & SOCIAL FACTORS

The number of full-time farmers and average farm sizes are similar to the state averages of 47% and 197 acres, respectively (Table 22), suggesting average expected levels of participation in conservation programs in the subbasin. Farm sizes decreased by an estimated 24% between 1997 and 2002, whereas on average farm sizes decreased by 13% across the state for the same period. Loss of cropland between 1997 and 2002 is estimated at 10%, higher than the SC average of 8%.

The relative importance of crop and livestock commodity groups in the watershed is shown in Tables 24 and 25; a *qualitative* indication of the relative importance of timber is provided on Table 16.

For more economic and farm information from the 2002 Agricultural Census, more detailed reports for all South Carolina counties can be found at:

http://www.nass.usda.gov/census/census02/profiles/sc/index.htm

Table 22: 2002 FARM CENSUS DATA (WHOLE COUNTY DATA SHOWN) (SC average farm size = 197 ac)

| County | Total Number of Farms | % Full Time Farmers | % Farms > 180 (ac) | Average Farm Size (ac) |
|---------------|--------------------------|------------------------|-----------------------|---------------------------|
| Fairfield | 237 | 38% | 38% | 238 |
| Kershaw | 479 | 46% | 18% | 146 |
| Lancaster | 637 | 48% | 18% | 128 |
| Lee | 324 | 42% | 39% | 378 |
| Richland | 429 | 43% | 21% | 148 |
| Sumter | 537 | 46% | 28% | 253 |
| Weighted Avg* | 458 | 45% | 25% | 198 |

Table 23: 2002 FARM CENSUS ECONOMIC DATA (WHOLE COUNTY DATA SHOWN) (Results in \$1,000)

| County | Market Value of Ag Products Sold | Market Value of Crops Sold | Market Value of Livestock, Poultry, and Their Products | Farms with sales < \$10,000 |
|---------------|-------------------------------------|----------------------------|--|-----------------------------|
| Fairfield | 16,307 | 752 | 15,555 | 192 |
| Kershaw | 84,475 | 2,081 | 82,394 | 379 |
| Lancaster | 45,710 | 1,660 | 44,050 | 532 |
| Lee | 33,675 | 10,413 | 23,262 | 233 |
| Richland | 6,706 | - | - | 362 |
| Sumter | 55,146 | 15,274 | 39,872 | 402 |
| Weighted Avg* | 58,546 | 5,857 | 52,152 | 357 |



REFERENCES

Table 24:

VALUE OF CROP COMMODITY GROUPS - COUNTY RANK IN STATE
(See NASS 2002 in References section. "D" in table = "Cannot be disclosed".)

| County | Value of All Crops | Grains & Oilseeds | Tobacco | All Cotton | Vegetables & Melons | Fruits, Nuts, & Berries | Nursery, Etc. | Christmas Trees & Woody Crops | Hay & other Crops |
|-----------|-----------------------|----------------------|---------|------------|------------------------|----------------------------|---------------|-------------------------------|----------------------|
| Fairfield | 44 | 44 | - | - | (D) | - | (D) | 2 | 29 |
| Kershaw | 38 | 27 | - | (D) | 24 | (D) | 30 | (D) | 14 |
| Lancaster | 41 | 36 | - | - | 35 | (D) | (D) | 15 | 18 |
| Lee | 20 | 6 | 10 | 6 | 34 | (D) | 32 | (D) | 11 |
| Richland | (D) | 18 | (D) | (D) | 36 | 23 | 23 | 6 | (D) |
| Sumter | 16 | 4 | 8 | 11 | (D) | (D) | 15 | (D) | 2 |

Table 25:

VALUE OF LIVESTOCK AND POULTRY COMMODITY GROUPS - RANK IN STATE (See NASS 2002 in References section. "D" in table = "Cannot be disclosed".)

| | Value of | | | | | | |
|-----------|--------------------|---------------|-----------------|--------------|-------------|---------------|--------------|
| County | Livestock, poultry | Poultry, Eggs | Cattle & Calves | Milk & Dairy | Hogs & Pigs | Sheep & Goats | Horses, etc. |
| Fairfield | 20 | 17 | 25 | (D) | 44 | 39 | (D) |
| Kershaw | 1 | 1 | (D) | (D) | (D) | 29 | 2 |
| Lancaster | 8 | 6 | 11 | 20 | 43 | 15 | 19 |
| Lee | 14 | 13 | (D) | (D) | (D) | 44 | 39 |
| Richland | (D) | 35 | 16 | - | 31 | 43 | (D) |
| Sumter | 11 | 8 | 32 | (D) | 16 | 19 | (D) |

REFERENCES

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APPENDIX

Level III Common Resource Area (Ecological Region) Descriptions

Piedmont (45)

The Piedmont is an erosional terrain with some hills; the soils are generally finer-textured than those found in coastal plain regions with less sand and more clay. Piedmont soils are moderately to severely eroded; most of this region is now in planted pine or has reverted to successional pine and hardwood woodlands, with some pasture; spreading urban- and suburbanization is apparent. The Piedmont of South Carolina is divided into five level IV ecoregions: Southern Inner Piedmont (45a), Southern Outer Piedmont (45b), Carolina Slate Belt (45c), Triassic Basins (45g) and Kings Mountain (45i).

Southeastern Plains (65)

The Southeastern Plains are irregular with broad interstream areas have a mosaic of cropland, pasture, woodland, and forest. In the past centuries, human activities (logging, agriculture and fire suppression) removed almost all of the longleaf pine forests. Elevations and relief are greater than in the Southern Coastal Plain (75), but generally less than in much of the Piedmont (45). The ecoregion has been divided into three level IV ecoregions within South Carolina: Sand Hills (65c), Atlantic Southern Loam Plains (65l), and Southeastern Floodplains and Low Terraces (65p). Note: The Atlantic Southern Loam Plains (65l) is a major agricultural zone, with deep, well-drained soils, and is characterized by high percentages of cropland.

NRCS Conservation Practices used for Conservation Treatment Categories in Table 3

 Report Category
 Practice Codes

 Buffer and Filter Strips
 332, 391, 393, 412

 Conservation Tillage
 324, 329, 329A, 329B, 344, 484

 Erosion Control
 327, 328, 330, 340, 342, 561, 585, 586

 Irrigation Water Management
 441, 449

 Nutrient Management
 590

Nutrient Management 590
Pest Management 595
Prescribed Grazing 528, 528A

Trees and Shrubs 490, 612, 655, 656, 66
Wetlands 657, 658, 659
Wildlife Habitat 644, 645

APPENDIX

Hydrologic Unit Numbering System

In 2005, the NRCS in cooperation with the U.S. Geological Survey, the South Carolina Department of Health and Environmental Control, and the U.S. Forest Service updated the South Carolina part of the USGS standard hydrologic unit map series. The report, "Development of a 10- and 12- Digit Hydrologic Unit Code Numbering System for South Carolina, 2005", describes and defines those efforts. The following is from the Abstract contained in that report: "A hydrologic unit map showing the subbasins, watersheds, and subwatersheds of South Carolina was developed to represent 8-, 10-, and 12-digit hydrologic unit codes, respectively. The 10- and 12-digit hydrologic unit codes replace the 11- and 14-digit hydrologic unit codes developed in a previous investigation. Additionally, substantial changes were made to the 8-digit subbasins in the South Carolina Coastal Plain. These modifications include the creation of four new subbasins and the renumbering of existing subbasins." The report may be obtained at

http://www.sc.nrcs.usda.gov/technical/HUC_report.pdf. See Table 2 in the report for a cross-reference of old to new 8-digit HUC.

This subbasin profile uses the new HUC 8 numbering system with its modified and newly created subbasins. The NRCS reports implemented practices by 8-digit Hydrologic Unit Code. All NRCS reported Conservation Practices were reported using the older numbering system. 2005 and 2006 data were converted to the new HUC 8 numbering system through the Latitude and Longitude data reported with the applied practice. The use of these differing numbering systems has resulted in some NRCS implemented practices being credited in this report to an 8-digit HUC as reported by the NRCS but not correctly credited in the new numbering system. Likewise, the newly created 8-digit HUC will not be credited with the 2004 applied practices.